

**Draft for hosting of AoN Details For AoNs Accorded  
by SPB/DPB/DAC**

AoN Date : **02 Nov 2022**

ITEM DESCRIPTION (weapon/equipment/platform) : **Ballistic Shields (NIJ IV/BIS 6)  
with Harness**

QUANTITY : **Quantity 1,612 Ballistic Shields (NIJ IV/BIS 6) with Harness**

CATEGORIZATION : **'Buy (Indian-IDDM)' through FTP.**

BROAD PARAMETERS QRs OF THE ITEM : **As per OR attached.**

SPECIAL INSTRUCTIONS ON DEMO, IF ANY : **No Cost No Commitment (NCNC)  
Demo cum evaluation will be  
conducted at TBRL/NFSU.**

ANY OTHER SPECIFIC INSTRUCTIONS : **NA**

**OPERATIONAL REQUIREMENT : BALLISTIC SHIELD (NIJ LEVEL IV/ BIS 6)**  
**WITH HARNESS**

**General**

1. The Ballistic Shield (NIJ Level IV/ BIS 6) with Harness should provide ballistic protection from ammunition and splinters during operation. The shield should be modular and provide frontal protection to vital areas of the body. It should be comfortable to carry and should not impede movement and functioning of the soldier while carrying out operational duties.

**Operational Characteristics.**

2. **Ballistic Resistance.**

<b><u>S No</u></b>	<b><u>Type of Bullet</u></b>	<b><u>Impact Velocity (m/s)</u></b>	<b><u>Distance of Impact (m)</u></b>	<b><u>No of Shots per Panel</u></b>
(a)	7.62 x 39 mm Hard Steel Core (HSC)	700 ± 15	10 ± 0.5	Core Area : 06 Boundary : 04
(b)	7.62 x 54R API	830 ± 15	10 ± 0.5	Core Area : 06 Boundary : 04

Should conform to protection levels as per NIJ Level IV defined in NIJ 0101.06 Standards/ BIS 6 defined in IS 17051:2018 as stated in IS 17435:2020 for Ballistic Shields.

3. The Ballistic Shield (NIJ Level IV/ BIS Level 6) should have following physical characteristics:-

(a) **Design.** Shield should have an ambidextrous design. For design of the Ballistic Shield, refer Fig 1B at Page 2 of IS 17435.

(b) **Height.** Not less than 860 mm

(c) **Width.** Not less than 520 mm.

(d) **Weight of the Ballistic Shield (NIJ IV/ BIS VI).** Not more than 20 Kg + 5% including Ballistic View Port & accessories attached to Shield.

(e) **Ballistic View Port (NIJ IV/ BIS VI)** - 20cm x 10cm (+2cm). In case of damage, glass should be easily replaceable.

(f) Shield should be coated with rubberized coating for longer life.

4. **Support Harness.** It should be provided with Support Harness to enable hands-free carriage of Ballistic Shield while ensuring unhindered usage of personal weapon and balanced weight distribution once fully worn. It must have adequate handles/ straps for carriage and be quickly detachable. Handles/ Straps should be sturdy and fixed firmly on the rear side for ease carriage by an individual during operations.

5. **Operational Aids.** One/Two light (total: 600 lumen) be provided in front of the Shield.
6. **Colour.** Ballistic Shield should be Black/ OG/ Disruptive pattern in colour.
7. **Reference Document.** Be in conformance to IS 17435:2020 or equivalent standards.
8. The maintenance instruction should be legibly and indelibly marked/ printed/ labeled in English or Hindi on the Ballistic Shield.
9. **Service Life.** Minimum five years.